FIG. 1

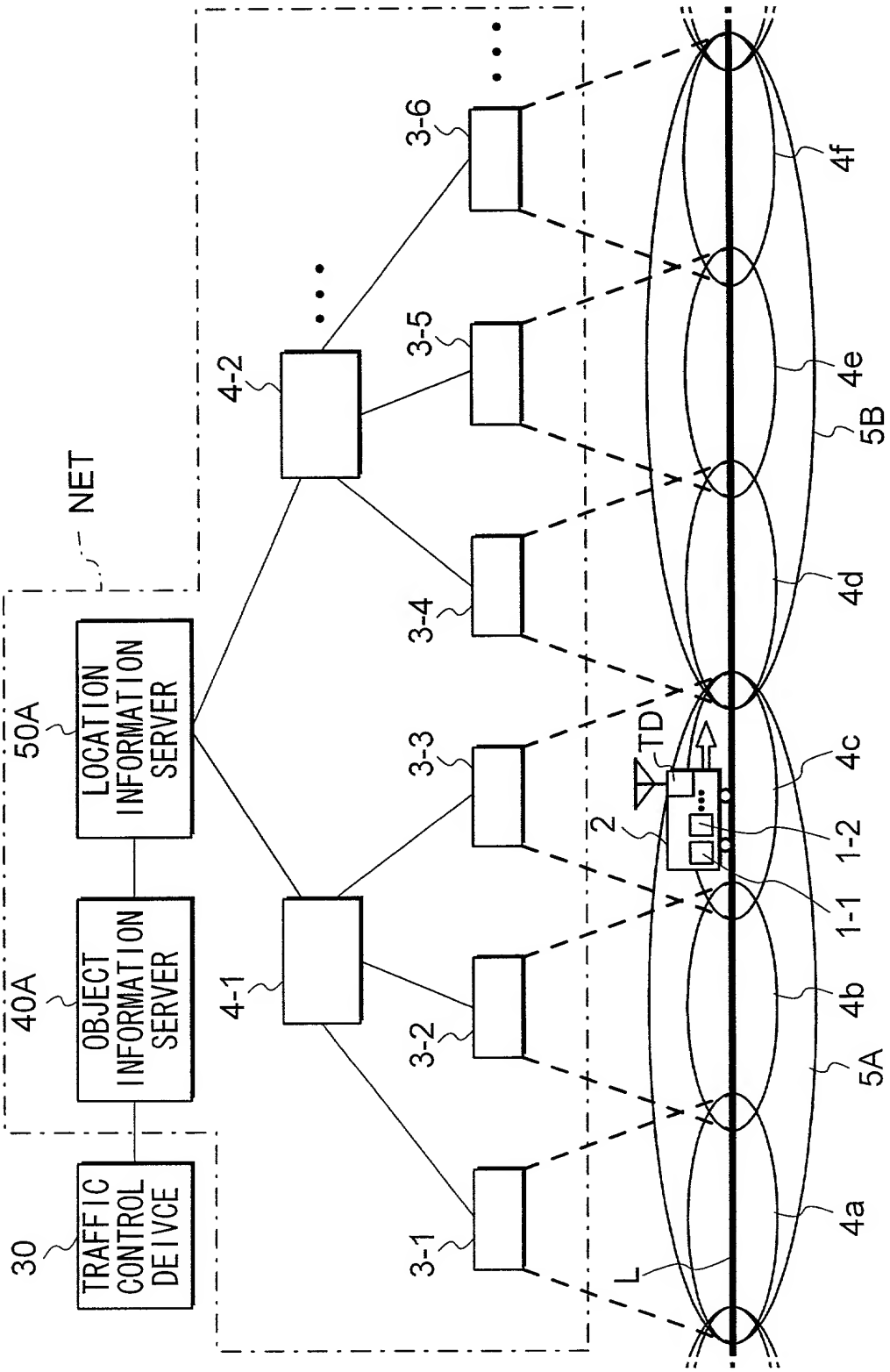

NET
50A
LOCATION INFORMATION SERVER
40A
OBJECT INFORMATION SERVER
30
TRAFFIC CONTROL DEIVCE
4-1
4-2
3-1
3-2
3-3
3-4
3-5
3-6
TD
2
1-1
1-2
4a
4b
4c
4d
4e
4f
5A
5B
L

FIG. 2

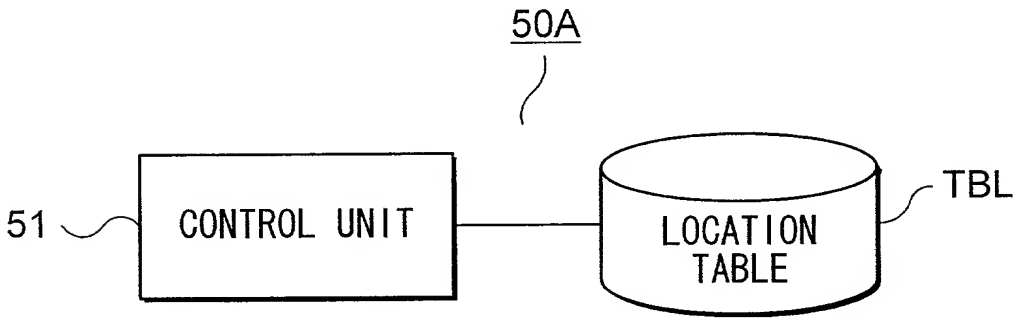


FIG. 3

TBL

	IDm	LOCATION INFORMATION
Rb1	X00001	A01234
Rb2	X00002	A01234
Rb3	X00003	5B
⋮	⋮	⋮

FIG. 4

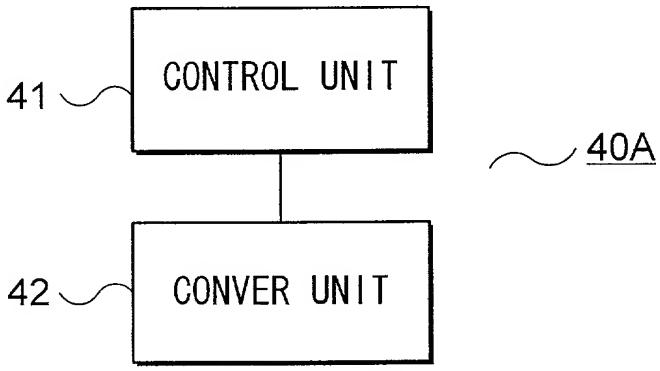


FIG. 5

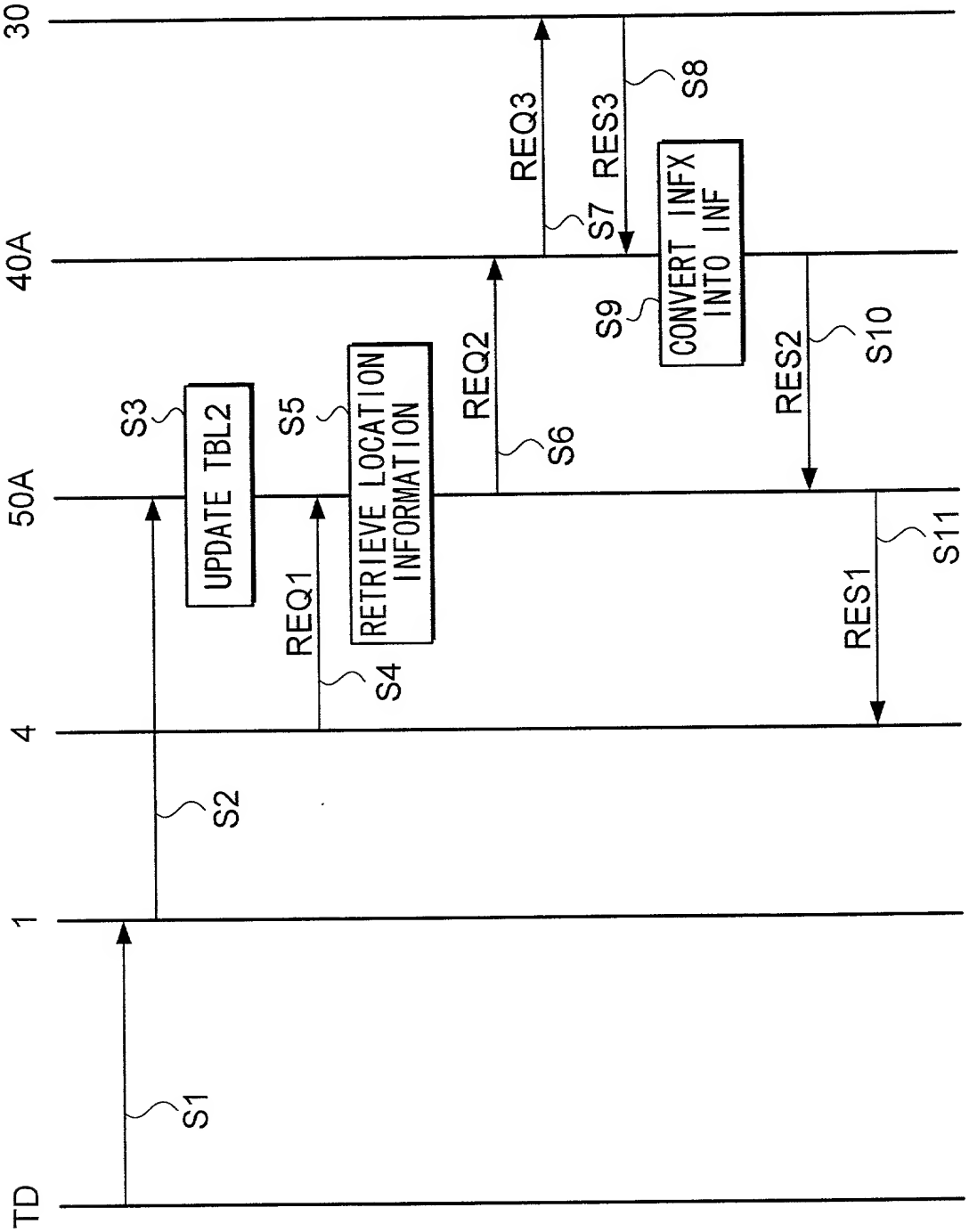

30
40A
50A
4
1
TD
REQ3
S7
RES3
S8
CONVERT INFX INTO INF
S9
REQ2
S6
RES2
S10
S3
UPDATE TBL2
S5
RETRIEVE LOCATION INFORMATION
REQ1
S4
RES1
S11
S2
S1

FIG. 6

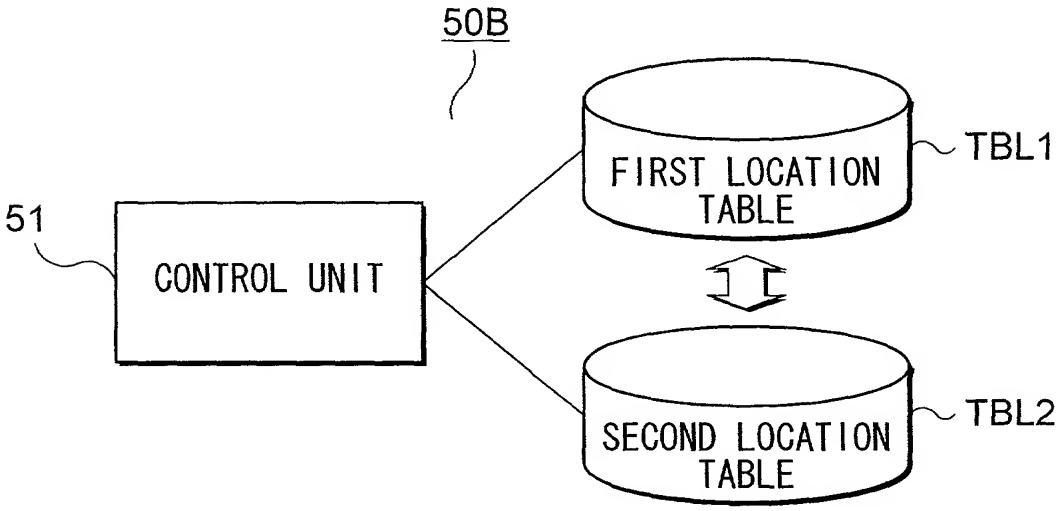

50B
51
CONTROL UNIT
FIRST LOCATION TABLE
TBL1
SECOND LOCATION TABLE
TBL2

FIG. 7

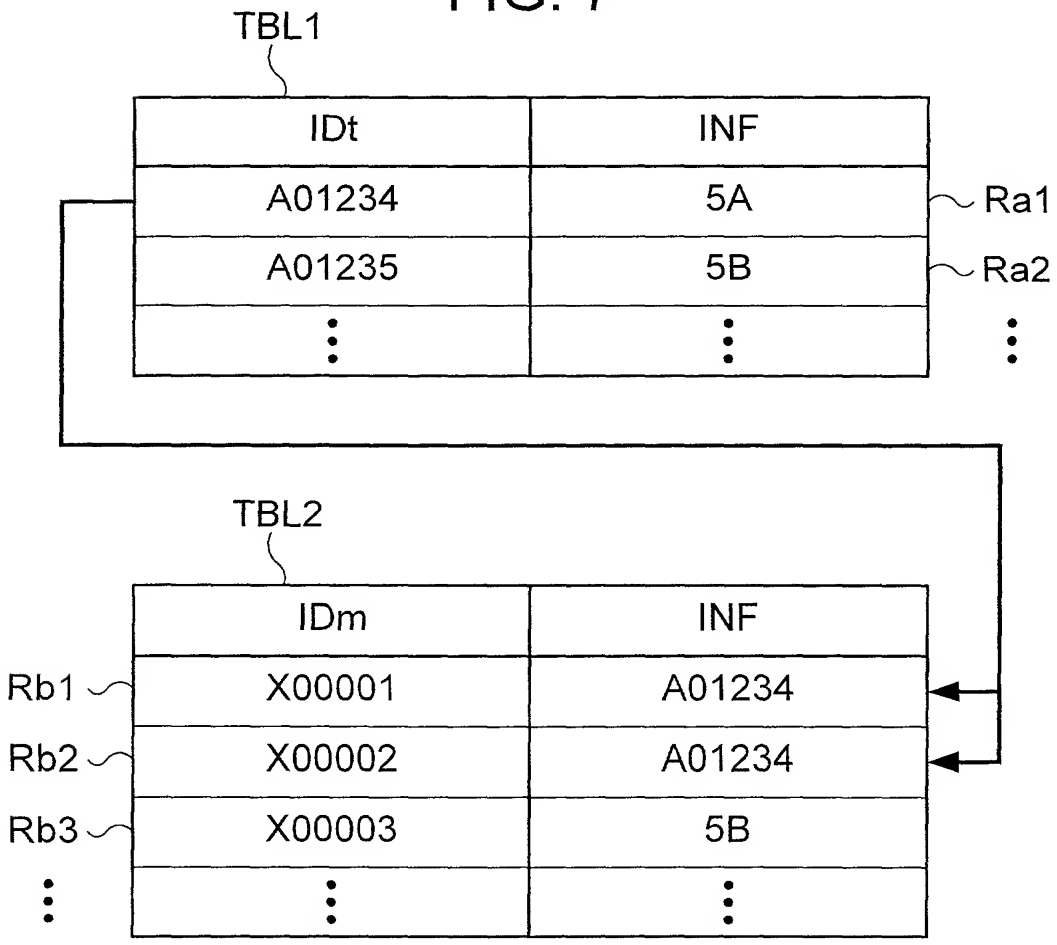

TBL1
IDt
INF
A01234
5A
Ra1
A01235
5B
Ra2
TBL2
IDm
INF
Rb1
X00001
A01234
Rb2
X00002
A01234
Rb3
X00003
5B

FIG. 8

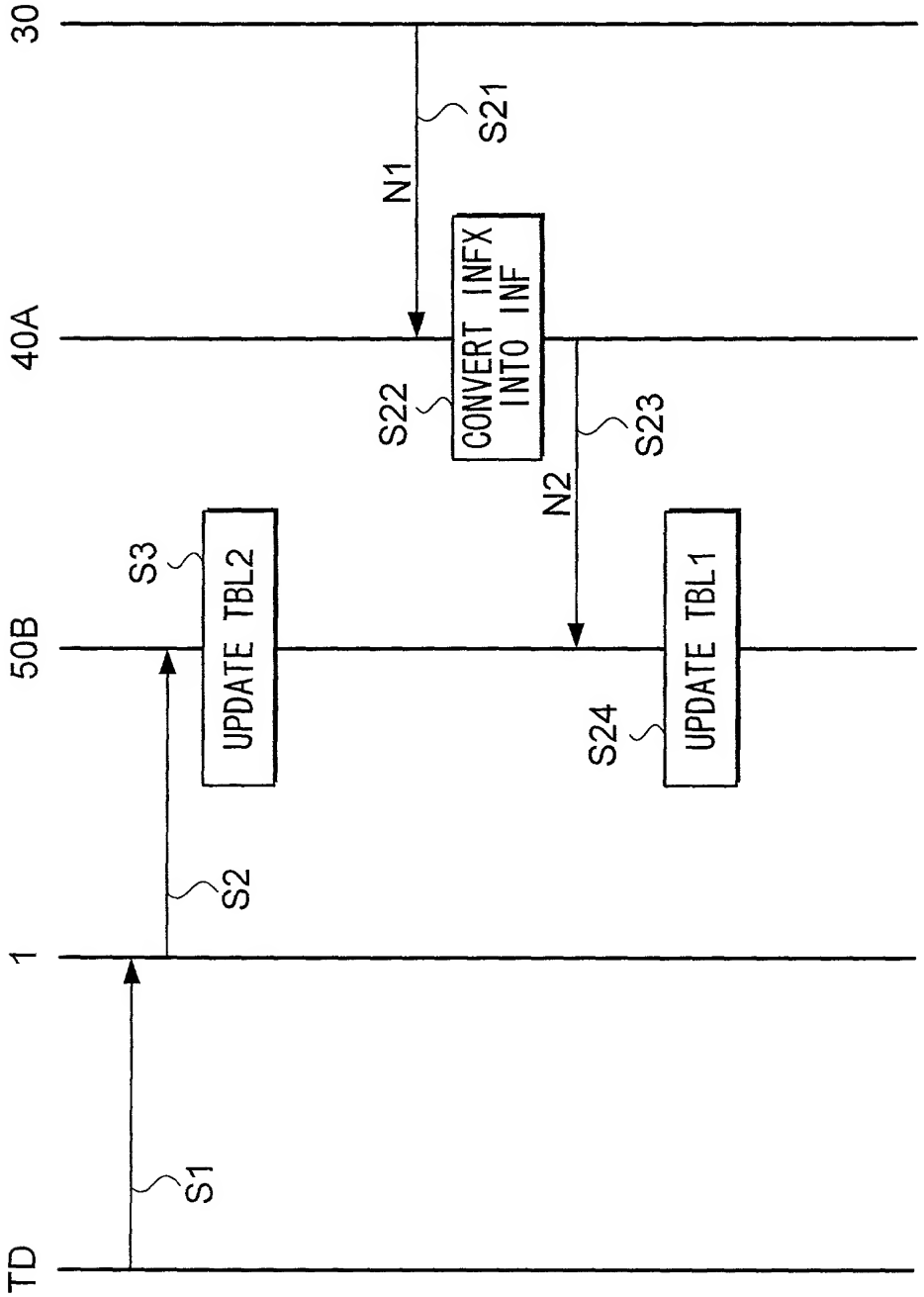

30
40A
50B
1
TD
S1
S2
S3
UPDATE TBL2
N1
S21
S22
CONVERT INFX INTO INF
S23
N2
S24
UPDATE TBL1

FIG. 9

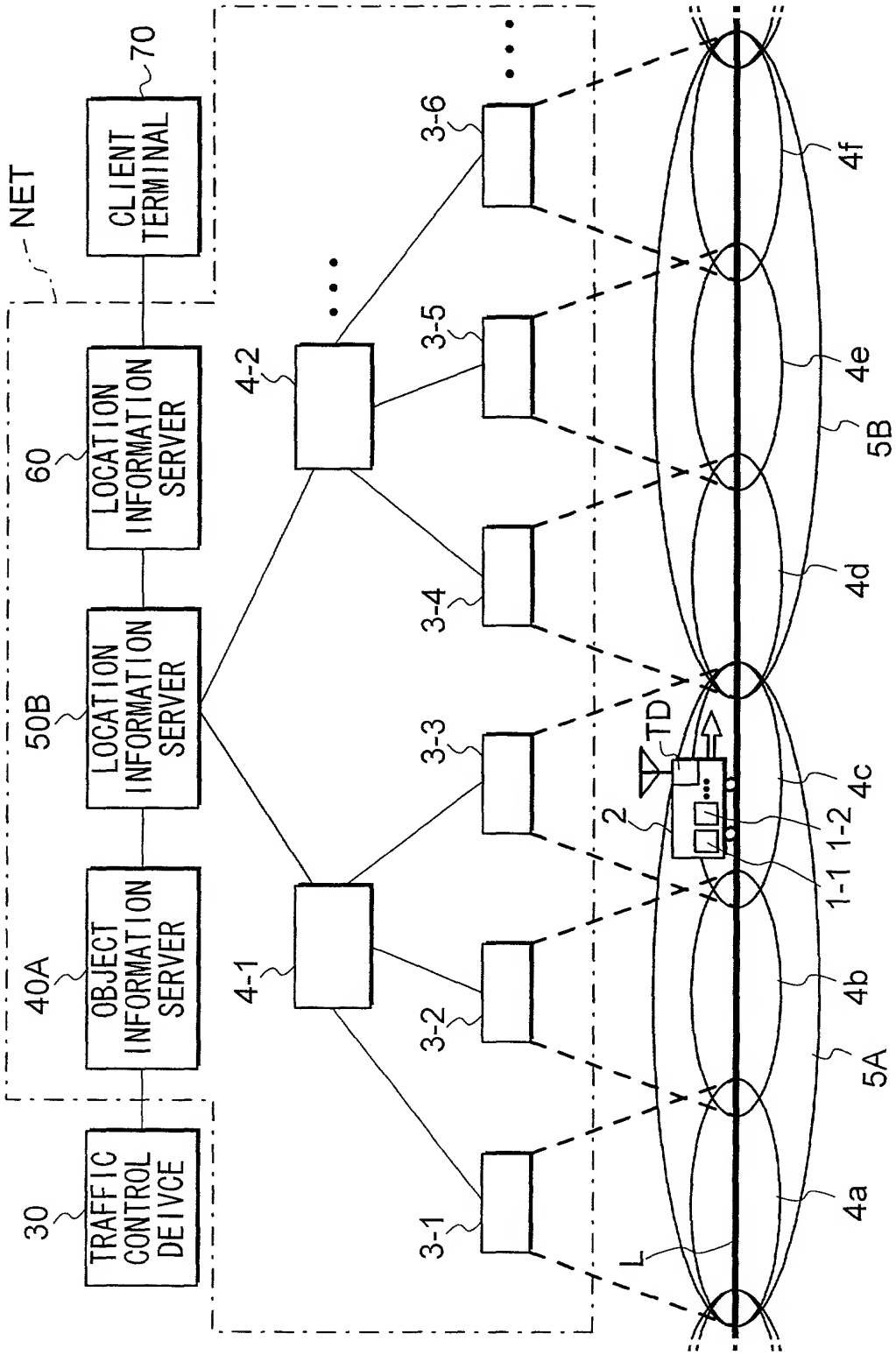

NET
30
TRAFFIC CONTROL DEIVCE
40A
OBJECT INFORMATION SERVER
50B
LOCATION INFORMATION SERVER
60
LOCATION INFORMATION SERVER
70
CLIENT TERMINAL
4-1
4-2
3-1
3-2
3-3
3-4
3-5
3-6
TD
2
1-1
1-2
4a
4b
4c
4d
4e
4f
5A
5B
L

FIG. 10

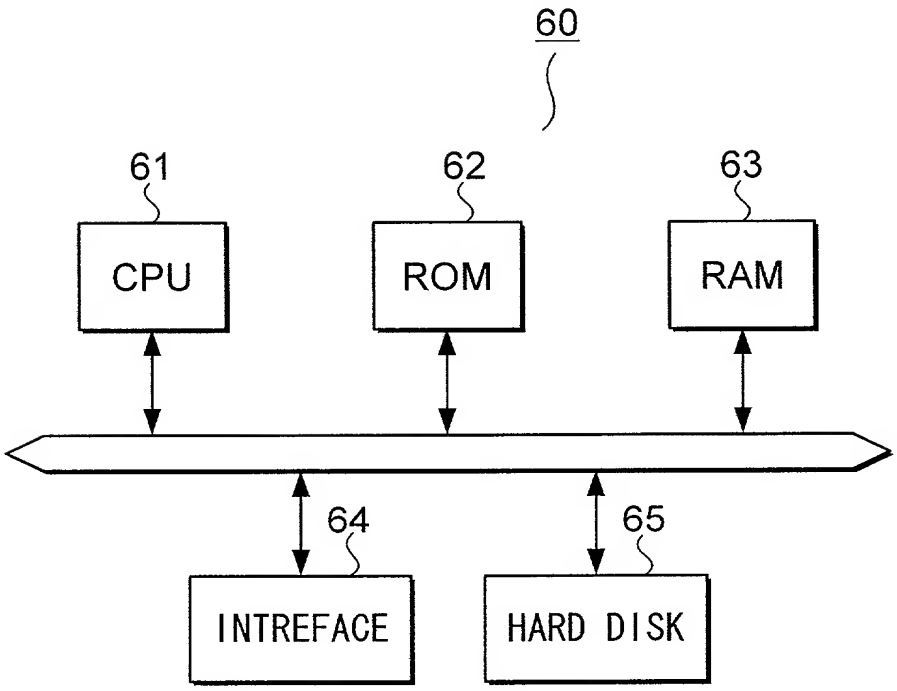


FIG. 11

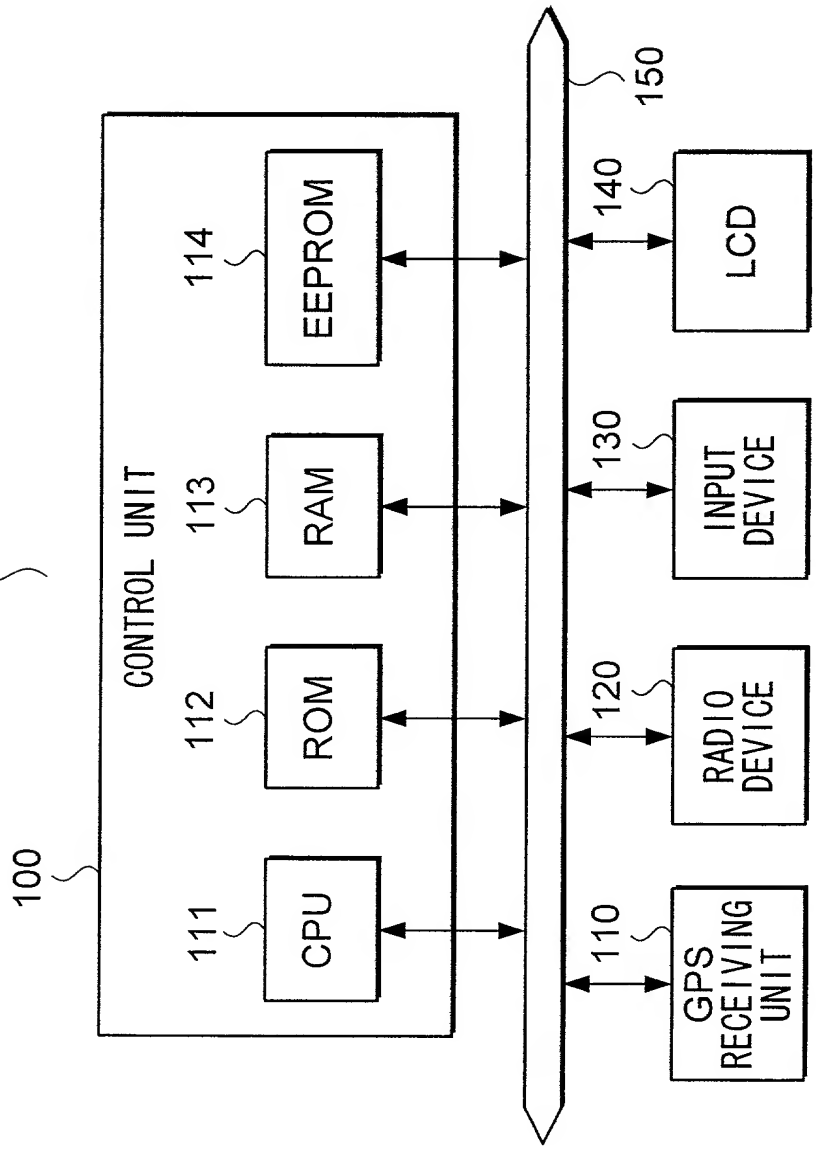

1
100
CONTROL UNIT
111
CPU
112
ROM
113
RAM
114
EEPROM
110
GPS RECEIVING UNIT
120
RADIO DEVICE
130
INPUT DEVICE
140
LCD
150

FIG. 12

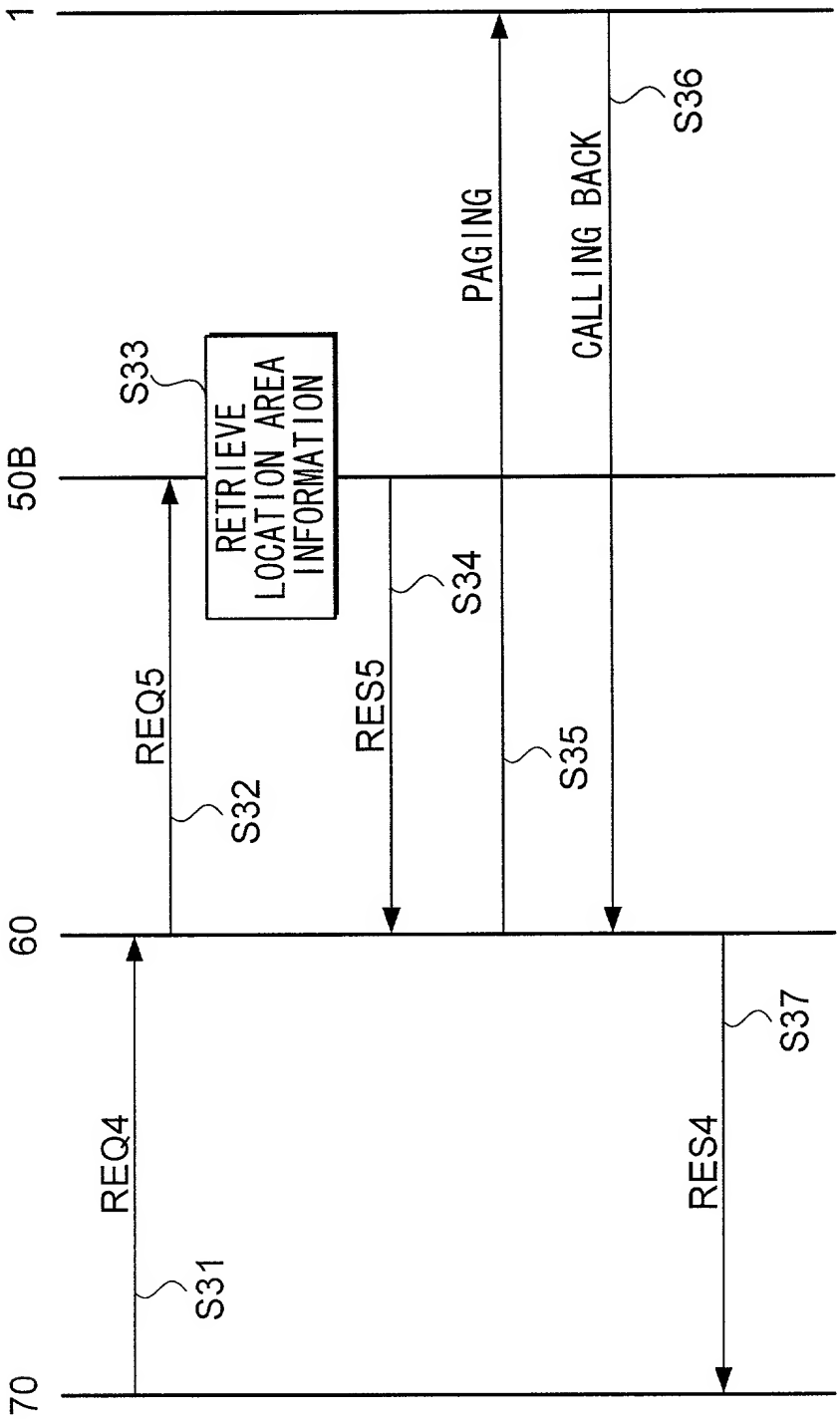

1
50B
60
70
REQ4
S31
REQ5
S32
RETRIEVE LOCATION AREA INFORMATION
S33
RES5
S34
PAGING
S35
CALLING BACK
S36
RES4
S37

FIG. 13

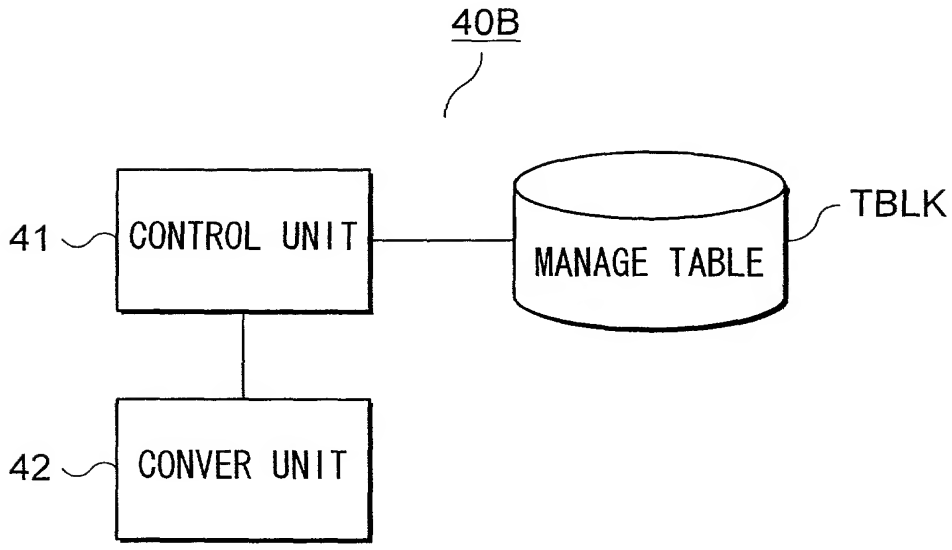


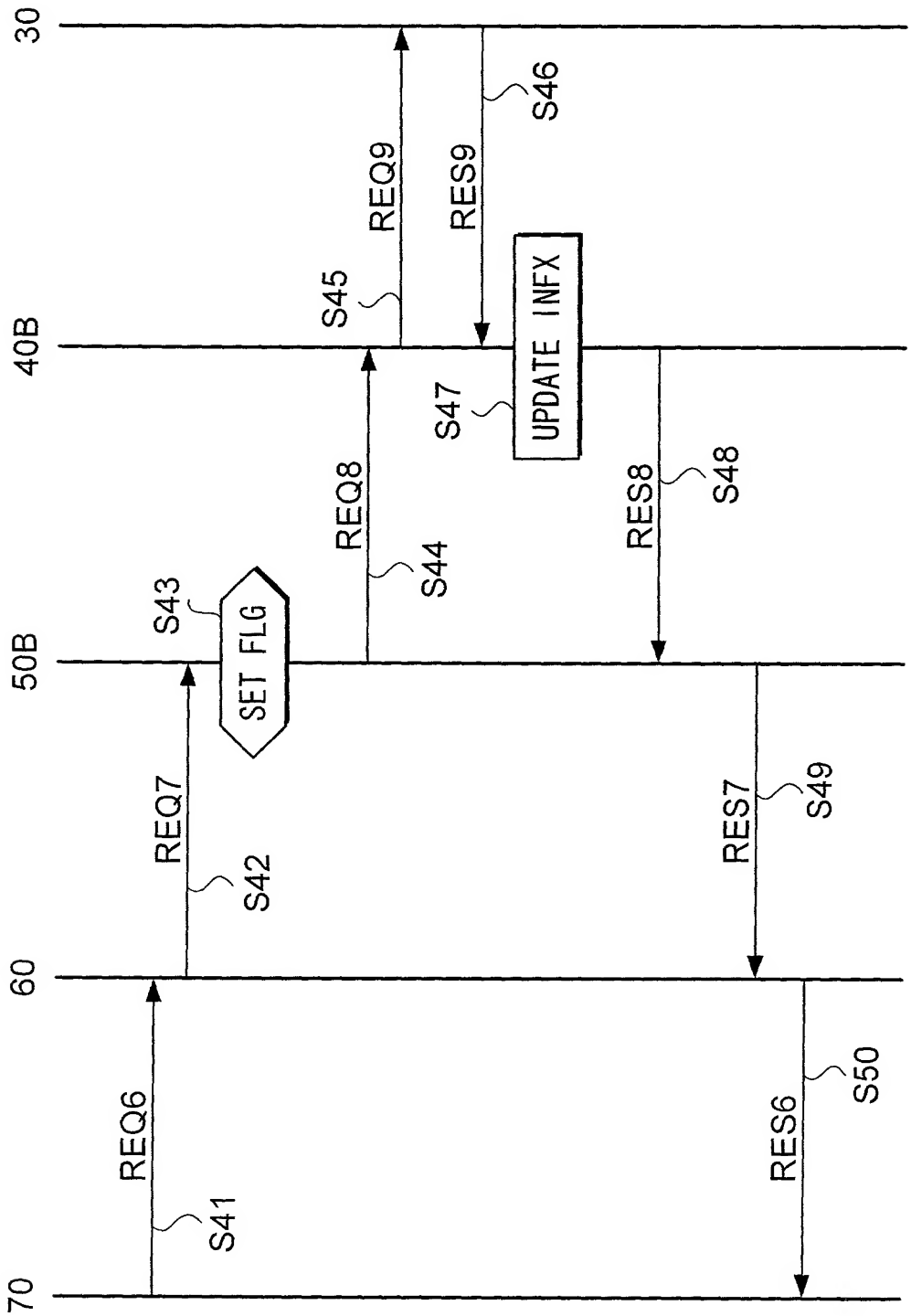
FIG. 14

TBLK

INFx

IDt	INF1	INF2	T
Rc1 A01234	LONG. 136° 15′ E., 35° 45′ N.	AZUSA NO. 2	13:00
Rc2 A01235	TOKAIDO LINE, 2KM FROM SHINAGAWA, TO YOKOHAMA	AN ACCIDENT AT TOTSUKA	9:50
⋮	⋮	⋮	⋮

FIG. 15


30
40B
50B
60
70
REQ9
RES9
S46
S45
UPDATE INFX
S47
REQ8
S44
RES8
S48
S43
SET FLG
REQ7
S42
RES7
S49
REQ6
S41
RES6
S50